Question 2 1999 - Great Lakes Region

Capacity of Representative Cable System	Specific Capacity	Total MHz usable for downstream transmissions	Total MHz expected to be used for analog video	Total MHz expected to be used for digital video	Total MHz expected to be used for other downstream services+				
>750 MHz*	n/a								
750 MHz	[redacted]	672	468	66	30				
550-750 MHz**	n/a								
550 MHz	[redacted]	472	426	40	6				
<550 MHz	n/a								

+ Identify any other downstream services

* fill in a capacity greater than 750 MHz if applicable, or enter NA if no systems in the >750 MHz category

** fill in a capacity between 550 and 750 MHz if applicable, or enter NA if no systems in the 550-750 MHz category

*** fill in a capacity below 550 MHz if applicable, or enter NA if no systems in the <550 MHz category

Please explain here any discrepancies between capacity usable for downstream transmissions and total capacity minus the bandwidth below 54 MHz.

Question 2	2000 - Great Lakes Region								
Capacity of Representative Cable System	Specific Capacity	Total MHz usable for downstream transmissions	Total MHz expected to be used for analog video	Total MHz expected to be used for digital video	Total MHz expected to be used for other downstream services+				
>750 MHz*									
750 MHz	[redacted]	672	426	66	180+	interactive apps, high speed data, VoIP, VOD			
550-750 MHz**	n/a								
550 MHz	[redacted]	472	426	40	6+	same			
<550 MHz	n/a								

+ Identify any other downstream services

* fill in a capacity greater than 750 MHz if applicable, or enter NA if no systems in the >750 MHz category

** fill in a capacity between 550 and 750 MHz if applicable, or enter NA if no systems in the 550-750 MHz category

*** fill in a capacity below 550 MHz if applicable, or enter NA if no systems in the <550 MHz category

Please explain here any discrepancies between capacity usable for downstream transmissions and total capacity minus the bandwidth below 54 MHz.

Question 2	2001 - Great Lakes Region									
Capacity of Representative Cable System	Specific Capacity	Total MHz usable for downstream transmissions	Total MHz expected to be used for analog video	Total MHz expected to be used for digital video	Total MHz expected to be used for other downstream services+					
>750 MHz*	860	810	426	66	318+	Interactive apps, high speed data, VoIP, VOD				
750 MHz	[illegible]	672	426	66	180+	same				
550-750 MHz**	n/a									
550 MHz	[illegible]	472	426	40	6+	same				
<550 MHz	n/a									

+ Identify any other downstream services

* fill in a capacity greater than 750 MHz if applicable, or enter NA if no systems in the >750 MHz category
** fill in a capacity between 550 and 750 MHz if applicable, or enter NA if no systems in the 550-750 MHz category
*** fill in a capacity below 550 MHz if applicable, or enter NA if no systems in the <550 MHz category

Please explain here any discrepancies between capacity usable for downstream transmissions and total capacity minus the bandwidth below 54 MHz.

Column D is headed as "Total MHz expected to be used for analog video"

Breakdown of the usage is as follows:

Channels	MHz Used
2-4	18
5-6	12
7-70	384
A-1 / A-5	12
Total	426

Remaining MHz unusable for video (analog or digital) between channels 4 and 5 (10 MHz) and the FM Band (88-108 MHz/20MHz total).

Question 2	2002 - Great Lakes Region									
Capacity of Representative Cable System	Specific Capacity	Total MHz usable for downstream transmissions	Total MHz expected to be used for analog video	Total MHz expected to be used for digital video	Total MHz expected to be used for other downstream services+					
>750 MHz*	860	810	426	108	240+	Interactive apps, high speed data, VoIP, VOD				
750 MHz	[redacted]	672	426	108	138+	same				
550-750 MHz**	n/a									
550 MHz	[redacted]									
<550 MHz	n/a									

+ Identify any other downstream services

* fill in a capacity greater than 750 MHz if applicable, or enter NA if no systems in the >750 MHz category
** fill in a capacity between 550 and 750 MHz if applicable, or enter NA if no systems in the 550-750 MHz category
*** fill in a capacity below 550 MHz if applicable, or enter NA if no systems in the <550 MHz category

Please explain here any discrepancies between capacity usable for downstream transmissions and total capacity minus the bandwidth below 54 MHz.

Column D is headed as "Total MHz expected to be used for analog video"

Breakdown of the usage is as follows:

Channels	MHz Used
2-4	18
5-6	12
7-70	384
A-1 / A-5	12
Total	426

Remaining MHz unusable for video (analog or digital) between channels 4 and 5 (10 Mhz) and the FM Band 88-108 MHz/20 MHz total)

Question 2	2003 - Great Lakes Region									
Capacity of Representative Cable System	Specific Capacity	Total MHz usable for downstream transmissions	Total MHz expected to be used for analog video	Total MHz expected to be used for digital video	Total MHz expected to be used for other downstream services+					
>750 MHz*	860	810	426	108	276+	Interactive apps, high speed data, VoIP, VOD				
750 MHz	[redacted]	672	426	108	138+	same				
550-750 MHz**	n/a									
550 MHz	n/a									
<550 MHz	n/a									

+ Identify any other downstream services

* fill in a capacity greater than 750 MHz if applicable, or enter NA if no systems in the >750 MHz category

** fill in a capacity between 550 and 750 MHz if applicable, or enter NA if no systems in the 550-750 MHz category

*** fill in a capacity below 550 MHz if applicable, or enter NA if no systems in the <550 MHz category

Please explain here any discrepancies between capacity usable for downstream transmissions and total capacity minus the bandwidth below 54 MHz.

Column D is headed as "Total MHz expected to be used for analog video"

Breakdown of the usage is as follows:

Channels	MHz Used
2-4	18
5-6	12
7-70	384
A-1 / A-5	12
Total	426

Remaining MHz unusable for video (analog or digital) between channels 4 and 5 (10 MHz) and the FM Band (88-108 MHz/20 MHz total).

2001

Question 2 Western Region FCC Reply

Capacity of Representative Cable System	Specific Capacity	Total MHz usable for downstream transmissions	Total MHz expected to be used for analog video	Total MHz expected to be used for digital video	Total MHz expected to be used for other downstream services+					
>750 MHz*	860 Mhz	810 MHz	500 MHz	174 MHz##	136 MHz+	Docsis, Telephony, VOD				
750 MHz	[illegible]	700 MHz	500 MHz	174 MHz##	26 MHz+	Docsis, Telephony, VOD				
550-750 MHz**	N/A									
550 MHz	[illegible]	500 MHz	420 MHz	54 MHz##	26 MHz+	Docsis, Telephony, VOD				
<550 MHz	N/A									

+ Identify any other downstream services

##The 174 MHz and the 54 MHz are currently used for digital video

* fill in a capacity greater than 750 MHz if applicable or enter NA if no systems in the >750 MHz category

** fill in a capacity between 550 and 750 MHz if applicable, or enter NA if no systems in the 550-750 MHz category

*** fill in a capacity below 550 MHz if applicable, or enter NA if no systems in the <550 MHz category

Please explain here any discrepancies between capacity usable for downstream transmissions and total capacity minus the bandwidth below 54 MHz.

This chart reflects the current capacity and offerings. Projections for this region were not available. The above-referenced bandwidths are fully utilized for the respective services, with no excess capacity for additional offerings.

Question 2										
Southeast Area	1999									
Capacity of Representative Cable System	Specific Capacity	Total MHz usable for downstream transmissions	Total MHz expected to be used for analog video	Total MHz expected to be used for digital video	Total MHz expected to be used for other downstream services+					
>750 MHz*										
750 MHz		696	496	0	18+	HSD				
550-750 MHz**										
550 MHz										
<550 MHz	450	396	396	0	0					
+ The 18 MHz is used for High Speed Data										
* fill in a capacity greater than 750 MHz if applicable, or enter NA if no systems in the >750 MHz category										
** fill in a capacity between 550 and 750 MHz if applicable, or enter NA if no systems in the 550-750 MHz category										
*** fill in a capacity below 550 MHz if applicable, or enter NA if no systems in the <550 MHz category										
Please explain here any discrepancies between capacity usable for downstream transmissions and total capacity minus the bandwidth below 54 MHz.										

Question 2

Southeast Area 2000

Capacity of Representative Cable System	Specific Capacity	Total MHz usable for downstream transmissions	Total MHz expected to be used for analog video	Total MHz expected to be used for digital video	Total MHz expected to be used for other downstream services+					
>750 MHz*										
750 MHz	[redacted]	696	496	72	18+	HSD				
550-750 MHz**										
550 MHz	[redacted]									
<550 MHz	450	396	396	48	6+	HSD				

+ The 18 MHz and 6 MHz are used for High Speed Data

* fill in a capacity greater than 750 MHz if applicable, or enter NA if no systems in the >750 MHz category

** fill in a capacity between 550 and 750 MHz if applicable, or enter NA if no systems in the 550-750 MHz category

*** fill in a capacity below 550 MHz if applicable, or enter NA if no systems in the <550 MHz category

Please explain here any discrepancies between capacity usable for downstream transmissions and total capacity minus the bandwidth below 54 MHz.

Question 2

Southeast Area 2001

Capacity of Representative Cable System	Specific Capacity	Total MHz usable for downstream transmissions	Total MHz expected to be used for analog video	Total MHz expected to be used for digital video	Total MHz expected to be used for other downstream services+					
>750 MHz*										
750 MHz	[redacted]	696	496	144##	56+	HSD				
550-750 MHz**										
550 MHz	[redacted]									
<550 MHz	450	396	342	48##	6+	HSD				

+ The 18 MHz and 6 MHz are used for High Speed Data

##The 144 MHz and the 48 MHz are currently used for digital video

* fill in a capacity greater than 750 MHz if applicable, or enter NA if no systems in the >750 MHz category

** fill in a capacity between 550 and 750 MHz if applicable, or enter NA if no systems in the 550-750 MHz category

*** fill in a capacity below 550 MHz if applicable, or enter NA if no systems in the <550 MHz category

Please explain here any discrepancies between capacity usable for downstream transmissions and total capacity minus the bandwidth below 54MHz.

Question 2

Southeast Area 2002

Capacity of Representative Cable System	Specific Capacity	Total MHz usable for downstream transmissions	Total MHz expected to be used for analog video	Total MHz expected to be used for digital video	Total MHz expected to be used for other downstream services+
>750 MHz*	860	806	496	144##	166+
750 MHz	[redacted]	696	496	144##	56+
550-750 MHz**					
550 MHz	[redacted]				
<550 MHz					

+used for High Speed Data and additional services, i.e. interactive apps, VoIP, VOD

##The 144 MHz are currently used for digital video, and will continue to be used for digital video services.

* fill in a capacity greater than 750 MHz if applicable, or enter NA if no systems in the >750 MHz category

** fill in a capacity between 550 and 750 MHz if applicable, or enter NA if no systems in the 550-750 MHz category

*** fill in a capacity below 550 MHz if applicable, or enter NA if no systems in the <550 MHz category

Please explain here any discrepancies between capacity usable for downstream transmissions and total capacity minus the bandwidth below 54 MHz.

Question 2

Southeast Area 2003

Capacity of Representative Cable System	Specific Capacity	Total MHz usable for downstream transmissions	Total MHz expected to be used for analog video	Total MHz expected to be used for digital video	Total MHz expected to be used for other downstream services+
>750 MHz*	860	806	496	144##	166+
750 MHz	[redacted]	696	496	144##	56+
550-750 MHz**					
550 MHz	[redacted]				
<550 MHz					

+used for High Speed Data and additional services, I.e., interactive apps, VoIP, VOD

##The 144 MHz are currently used for digital video, and will continue to be used for digital video services.

* fill in a capacity greater than 750 MHz if applicable, or enter NA if no systems in the >750 MHz category

** fill in a capacity between 550 and 750 MHz if applicable, or enter NA if no systems in the 550-750 MHz category

*** fill in a capacity below 550 MHz if applicable, or enter NA if no systems in the <550 MHz category

Please explain here any discrepancies between capacity usable for downstream transmissions and total capacity minus the bandwidth below 54 MHz.

Question 3	1999 - Great Lakes Region										
Capacity of Representative Cable System	Specific Capacity	Total MHz expected to be used for digital video transmission (from question 2)	Modulation technique	MHz expected to be devoted to HDTV transmissions (broadcast or nonbroadcast)	HDTV Program streams per 6 MHz	MHz expected to be devoted to standard definition video	SDTV program streams per 6 MHz				
>750 MHz*	n/a										
750 MHz	[redacted]	66	256Q	0	na						
550-750 MHz**	n/a										
550 MHz	[redacted]	40	256Q	0	na						
<550 MHz	n/a										

* fill in a capacity greater than 750 MHz if applicable, or enter NA if no systems in the >750 MHz category

** fill in a capacity between 550 and 750 MHz if applicable, or enter NA if no systems in the 550-750 MHz category

*** fill in a capacity below 550 MHz if applicable, or enter NA if no systems in the <550 MHz category

Please describe here any situations in which you plan to use different modulation techniques on a single system or on different systems in the same capacity class.

If the number of HDTV program streams per 6 MHz is expected to vary, please explain the range of variation here.

If the number of SDTV program streams per 6 MHz is expected to vary, please explain the range of variation here.

Question 3 2000 - Great Lakes Region

Capacity of Representative Cable System	Specific Capacity	Total MHz expected to be used for digital video transmission (from question 2)	Modulation technique	MHz expected to be devoted to HDTV transmissions (broadcast or nonbroadcast)	HDTV Program streams per 6 MHz	MHz expected to be devoted to standard definition video	SDTV program streams per 6 MHz				
>750 MHz*											
750 MHz		66	256Q	0	na						
550-750 MHz**											
550 MHz		40	256Q	0	na						
<550 MHz											

* fill in a capacity greater than 750 MHz if applicable, or enter NA if no systems in the >750 MHz category

** fill in a capacity between 550 and 750 MHz if applicable, or enter NA if no systems in the 550-750 MHz category

*** fill in a capacity below 550 MHz if applicable, or enter NA if no systems in the <550 MHz category

Please describe here any situations in which you plan to use different modulation techniques on a single system or on different systems in the same capacity class.

If the number of HDTV program streams per 6 MHz is expected to vary, please explain the range of variation here.

If the number of SDTV program streams per 6 MHz is expected to vary, please explain the range of variation here.

Question 3 2001- Great Lakes Region

Capacity of Representative Cable System	Specific Capacity	Total MHz expected to be used for digital video transmission (from question 2)	Modulation technique	MHz expected to be devoted to HDTV transmissions (broadcast or nonbroadcast)	HDTV Program streams per 6 MHz	MHz expected to be devoted to standard definition video	SDTV program streams per 6 MHz				
>750 MHz*	860	66	256Q	0	na	500					
750 MHz		66	256Q	0	na	500					
550-750 MHz**											
550 MHz		40	256Q	0	na	500					
<550 MHz											

* fill in a capacity greater than 750 MHz if applicable, or enter NA if no systems in the >750 MHz category

** fill in a capacity between 550 and 750 MHz if applicable, or enter NA if no systems in the 550-750 MHz category

*** fill in a capacity below 550 MHz if applicable, or enter NA if no systems in the <550 MHz category

Please describe here any situations in which you plan to use different modulation techniques on a single system or on different systems in the same capacity class.

If the number of HDTV program streams per 6 MHz is expected to vary, please explain the range of variation here.

If the number of SDTV program streams per 6 MHz is expected to vary, please explain the range of variation here.

Question 3	2002 - Great Lakes Region										
Capacity of Representative Cable System	Specific Capacity	Total MHz expected to be used for digital video transmission (from question 2)	Modulation technique	MHz expected to be devoted to HDTV transmissions (broadcast or nonbroadcast)	HDTV Program streams per 6 MHz	MHz expected to be devoted to standard definition video	SDTV program streams per 6 MHz				
>750 MHz*	860	108	256Q	6	?	500	8				
750 MHz	[illegible]	108	256Q	6	?	500	8				
550-750 MHz**											
550 MHz	[illegible]										
<550 MHz											

* fill in a capacity greater than 750 MHz if applicable, or enter NA if no systems in the >750 MHz category

** fill in a capacity between 550 and 750 MHz if applicable, or enter NA if no systems in the 550-750 MHz category

*** fill in a capacity below 550 MHz if applicable, or enter NA if no systems in the <550 MHz category

Please describe here any situations in which you plan to use different modulation techniques on a single system or on different systems in the same capacity class.

If the number of HDTV program streams per 6 MHz is expected to vary, please explain the range of variation here.

If the number of SDTV program streams per 6 MHz is expected to vary, please explain the range of variation here.

Question 3 2003 - Great Lakes Region

Capacity of Representative Cable System	Specific Capacity	Total MHz expected to be used for digital video transmission (from question 2)	Modulation technique	MHz expected to be devoted to HDTV transmissions (broadcast or nonbroadcast)	HDTV Program streams per 6 MHz	MHz expected to be devoted to standard definition video	SDTV program streams per 6 MHz
>750 MHz*	860	108	256Q	6	?	500	8
750 MHz		108	256Q	6	?	500	8
550-750 MHz**							
550 MHz							
<550 MHz							

* fill in a capacity greater than 750 MHz if applicable, or enter NA if no systems in the >750 MHz category

** fill in a capacity between 550 and 750 MHz if applicable, or enter NA if no systems in the 550-750 MHz category

*** fill in a capacity below 550 MHz if applicable, or enter NA if no systems in the <550 MHz category

Please describe here any situations in which you plan to use different modulation techniques on a single system or on different systems in the same capacity class.

If the number of HDTV program streams per 6 MHz is expected to vary, please explain the range of variation here.

If the number of SDTV program streams per 6 MHz is expected to vary, please explain the range of variation here.

2001

Question 3 Western Region FCC reply

Capacity of Representative Cable System	Specific Capacity	Total MHz expected to be used for digital video transmission (from question 2)	Modulation technique	MHz expected to be devoted to HDTV transmissions (broadcast or nonbroadcast)	HDTV Program streams per 6 MHz	MHz expected to be devoted to standard definition video	SDTV program streams per 6 MHz
>750 MHz*	860 Mhz	174 Mhz	64 QAM	6 Mhz	Unknown	168	8 - 12
750 MHz	[redacted]	174 Mhz	64 QAM	6 Mhz	Unknown	168	8 - 12
550-750 MHz**	N/A						
550 MHz	[redacted]	54 Mhz	64 QAM	6 Mhz	Unknown	54	8 - 12
<550 MHz	N/A						

* fill in a capacity greater than 750 MHz if applicable, or enter NA if no systems in the >750 MHz category

** fill in a capacity between 550 and 750 MHz if applicable, or enter NA if no systems in the 550-750 MHz category

*** fill in a capacity below 550 MHz if applicable, or enter NA if no systems in the <550 MHz category

Please describe here any situations in which you plan to use different modulation techniques on a single system or on different systems in the same capacity class.

If the number of HDTV program streams per 6 MHz is expected to vary, please explain the range of variation here.

This information is unknown

If the number of SDTV program streams per 6 MHz is expected to vary, please explain the range of variation here.

The variation is based on different payloads by service (64 QAM can be up to 12 channels)

Each service payload and compression is slightly different, therefore there can be a different number of channels per 6 MHz

Question 3

Southeast Area 1999

Capacity of Representative Cable System	Specific Capacity	Total MHz expected to be used for digital video transmission (from question 2)	Modulation technique	MHz expected to be devoted to HDTV transmissions (broadcast or nonbroadcast)	HDTV Program streams per 6 MHz	MHz expected to be devoted to standard definition video	SDTV program streams per 6 MHz				
>750 MHz*											
750 MHz		0	0	0	0	0	0				
550-750 MHz**											
550 MHz											
<550 MHz	450	0	0	0	0	0	0				

* fill in a capacity greater than 750 MHz if applicable, or enter NA if no systems in the >750 MHz category

** fill in a capacity between 550 and 750 MHz if applicable, or enter NA if no systems in the 550-750 MHz category

*** fill in a capacity below 550 MHz if applicable, or enter NA if no systems in the <550 MHz category

Please describe here any situations in which you plan to use different modulation techniques on a single system or on different systems in the same capacity class.

If the number of HDTV program streams per 6 MHz is expected to vary, please explain the range of variation here.

If the number of SDTV program streams per 6 MHz is expected to vary, please explain the range of variation here.

Question 3

Southeast Area 2000

Capacity of Representative Cable System	Specific Capacity	Total MHz expected to be used for digital video transmission (from question 2)	Modulation technique	MHz expected to be devoted to HDTV transmissions (broadcast or nonbroadcast)	HDTV Program streams per 6 MHz	MHz expected to be devoted to standard definition video	SDTV program streams per 6 MHz				
>750 MHz*											
750 MHz		72	64 QAM	0	0	0	8				
550-750 MHz**											
550 MHz											
<550 MHz	450	48	64 QAM	0	0	0	8				

* fill in a capacity greater than 750 MHz if applicable, or enter NA if no systems in the >750 MHz category

** fill in a capacity between 550 and 750 MHz if applicable, or enter NA if no systems in the 550-750 MHz category

*** fill in a capacity below 550 MHz if applicable, or enter NA if no systems in the <550 MHz category

Please describe here any situations in which you plan to use different modulation techniques on a single system or on different systems in the same capacity class.

If the number of HDTV program streams per 6 MHz is expected to vary, please explain the range of variation here.

If the number of SDTV program streams per 6 MHz is expected to vary, please explain the range of variation here.

Question 3

Southeast Area 2001

Capacity of Representative Cable System	Specific Capacity	Total MHz expected to be used for digital video transmission (from question 2)	Modulation technique	MHz expected to be devoted to HDTV transmissions (broadcast or nonbroadcast)	HDTV Program streams per 6 MHz	MHz expected to be devoted to standard definition video	SDTV program streams per 6 MHz				
>750 MHz*											
750 MHz		144	64 QAM	0	0	0	8				
550-750 MHz**											
550 MHz											
<550 MHz	450	48	64 QAM	0	0	0	8				

* fill in a capacity greater than 750 MHz if applicable, or enter NA if no systems in the >750 MHz category

** fill in a capacity between 550 and 750 MHz if applicable, or enter NA if no systems in the 550-750 MHz category

*** fill in a capacity below 550 MHz if applicable, or enter NA if no systems in the <550 MHz category

Please describe here any situations in which you plan to use different modulation techniques on a single system or on different systems in the same capacity class.

If the number of HDTV program streams per 6 MHz is expected to vary, please explain the range of variation here.

If the number of SDTV program streams per 6 MHz is expected to vary, please explain the range of variation here.

Question 4

Adelphia has negotiated one retransmission consent agreement that provides for the conversion of a digital broadcast signal to analog format where there is sufficient capacity to add the signals. The station is WCYB-TV. The agreement covers the Tri-Cities, TN-VA Designated Market Area.

All other retransmission consent agreements that refer to digital transmissions provide that the parties will negotiate the terms of any carriage of such digital transmissions when the signals become available down the road. To date, such negotiations have not taken place.

Any pending retransmission consent negotiations do not involve digital transmissions.